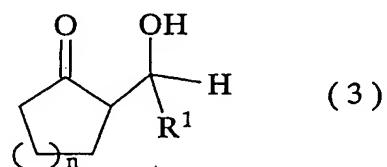
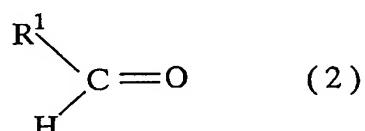
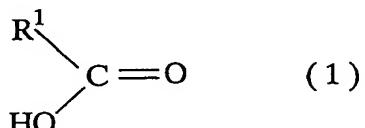


IN THE CLAIMS

Please amend the claims as follows:

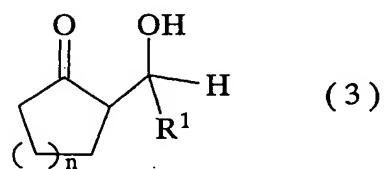
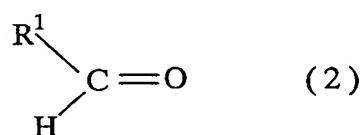
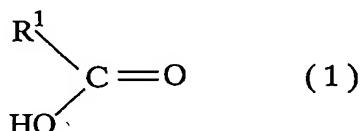
1. (Currently Amended) A process for producing a 2-(1-hydroxyalkyl)cycloalkanone and/or a 2-(1-hydroxyaryl)cycloalkanone represented by formula (3) (~~referred to hereinafter as compound (3)~~), which comprises the steps of subjecting a cycloalkanone, and an aldehyde represented by formula (2) (~~referred to hereinafter as aldehyde (2)~~) containing ~~comprising~~ a carboxylic acid represented by formula (1) (~~referred to hereinafter as carboxylic acid (1)~~), to aldol condensation in the presence of water and a basic catalyst, wherein the molar amount (~~referred to hereinafter as A~~) of the basic catalyst A added is not less than the molar amount (~~referred to hereinafter as B~~) of the carboxylic acid (1) represented by the formula (1) B (~~referred to hereinafter as carboxylic acid (1)~~) contained in the aldehyde (2) and the difference between A and B, that is, $(A - B)$ is 0.06 mol or less per mol of the aldehyde (2)[[.]]



wherein n is an integer of 1 or 2, and R¹ represents a hydrogen atom or a C1 to C8 linear or branched alkyl group or a substituted or unsubstituted aryl group.

2. (Original) The process according to claim 1, wherein the ratio of added water to the cycloalkanone by weight is from 0.2 to 1.2.

3. (Currently Amended) ~~The process according to claim 1 or 2, A process for producing a 2-(1-hydroxyalkyl)cycloalkanone and/or a 2-(1-hydroxyaryl)cycloalkanone represented by formula (3), which comprises the steps of subjecting a cycloalkanone, and an aldehyde represented by formula (2) comprising a carboxylic acid represented by formula (1), to aldol condensation in the presence of water and a basic catalyst, wherein the molar amount of the basic catalyst A added is not less than the molar amount of the carboxylic acid (1) represented by the formula (1) B and the difference between A and B is 0.06 mol or less per mol of the aldehyde (2)~~

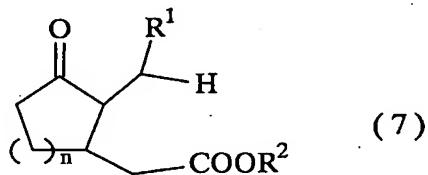


wherein n is an integer of 1 or 2, and R¹ represents a hydrogen atom or a C1 to C8 linear or branched alkyl group or a substituted or unsubstituted aryl group
wherein an aqueous layer obtained after the aldol condensation reaction is used again.

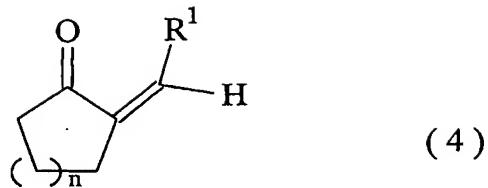
4. (Original) The process according to claim 3, wherein an aqueous layer recovered through pH adjustment with an acid and separation of the layer after the aldol condensation reaction is used again.

5. (Currently Amended) The process according to claim 4, wherein ~~besides the basic catalyst in the amount described in claim 1,~~ the basic catalyst is added in such an amount as to neutralize or alkalize (to pH 7 or more) the aqueous layer before the aqueous layer is used again.

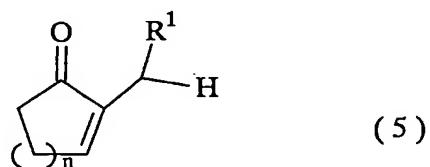
6. (Withdrawn-Currently Amended) A process for producing alkyl(3-oxo-2-alkylcycloalkyl)acetate and/or alkyl(3-oxo-2-aryl)cycloalkyl)acetate represented by formula (7):



wherein n and R¹ have the same meaning as defined above and R² represents a C1 to C3 linear or branched alkyl group, which comprises the steps of dehydrating the compound represented by formula (3) obtained by a method described in claim 1 or 2, to give 2-(alkylidene)cycloalkanone and/or 2-(arylene)cycloalkanone represented by formula (4) (referred to hereinafter as compound (4)):



wherein n and R¹ have the same meaning as defined above, then isomerization reaction of the compound represented by formula (4) to give 2-(alkyl)cycloalkenone and/or 2-(aryl)cycloalkenone represented by formula (5) (~~referred to hereinafter as compound (5)~~):

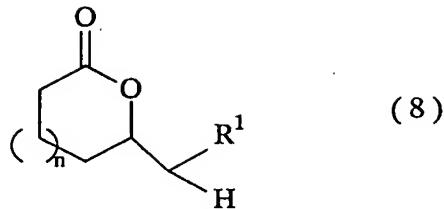


wherein n and R¹ have the same meaning as defined above, then reacting the compound represented by formula (5) with a malonic diester represented by formula (6):



R² has the same meaning as defined above and two R² groups may be the same or different, and reacting the product with water to give the compound of formula (7).

7. (Withdrawn-Currently Amended) A process for producing 5-alkyl-5-alkanolide and/or 5-aryl-5-alkanolide represented by formula (8):



wherein n and R¹ have the same meaning as defined above, which comprises the steps of dehydrating the compound represented by formula (3) obtained by a process described in claim 1 or 2 to give the compound represented by formula (4), subsequent isomerization reaction thereof to give the compound represented by formula (5) and hydrogen reduction thereof, followed by Baeyer-Villiger oxidation.